

# *Glass cloth*

**Glass cloth** is a [textile](#) material woven from fiberglass yarn.



*Glass cloth used to insulate a heating main pipe*



*Hot-air balloon: The lower portion is protected from heat by glass cloth.*

## Home and garden

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Glass cloth was originally developed to be used in [greenhouse](#) paneling, allowing sunlight's [ultraviolet](#) rays to be filtered out, while still allowing [visible](#) light through to plants.

Glass cloth is also a term for a type of [tea towel](#) suited for polishing glass. The cloth is usually woven with the plain weave, and may be patterned in various ways, though checked cloths are the most common. The original cloth was made from [linen](#), but a large quantity is made with [cotton warp](#) and [tow weft](#), and in some cases they are composed entirely of [cotton](#). Short fibres of the cheaper kind are easily detached from the cloth.<sup>[1]</sup>

In the Southern Plains during the [Dust Bowl](#), states' health officials recommended attaching translucent glass cloth to the inside frames of windows to help in keeping the dust out of buildings, although people also used paperboard, canvas or blankets. Eyewitness accounts indicate they were not completely successful.<sup>[2]</sup>

## Use in technology

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Due to [properties of glass](#) such as heat resistance and an inability to ignite, glass has been used to create fire barriers in hazardous environments such as inside of racecars. Its poor flexibility, and its being a source of skin irritation, made the fibers inadequate for apparel uses.

Its bi-directional strength make glass cloth useful for some [fiberglass reinforced plastics](#)<sup>[3]</sup>. For example, the [Rutan VariEze](#) homebuilt aircraft uses a moldless glass cloth - epoxy composite

structure and skin. Glass cloth is commonly used as the reinforcing lattice for [pre-pregs](#).<sup>[4]</sup>

## See also

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- [G-10 \(material\)](#)
- [Glass fiber](#)

## References

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1. One or more of the preceding sentences incorporates text from a publication now in the [public domain](#): Chisholm, Hugh, ed. (1911). "Glass cloth". *Encyclopædia Britannica*. Vol. 12 (11th ed.). Cambridge University Press.
2. *Dust Bowl, The Southern Plains in the 1930s...* by Donald Worster. Oxford University Press.
3. Shindo, Y (2001). "Double Cantilever Beam Measurement and Finite Element Analysis of Cryogenic Mode I Interlaminar Fracture Toughness of Glass-Cloth/Epoxy Laminates" (<https://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.1064.8944&rep=rep1&type=pdf>) . *Journal of Engineering Materials and Technology*. **123**: 191–197. doi:10.1115/1.1345527 (<https://doi.org/10.1115%2F1.1345527>) . Retrieved 20 May 2021.
4. Rusnák, S (2018). *Overview of production of pre-preg, prototype and testing* (<https://iopscience.iop.org/article/10.1088/1757-899X/448/1/012069/pdf>) . XXIII International Conference on Manufacturing (Manufacturing 2018). Vol. 448. IOP Conference Series: Materials Science and Engineering. Retrieved 20 May 2021.



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